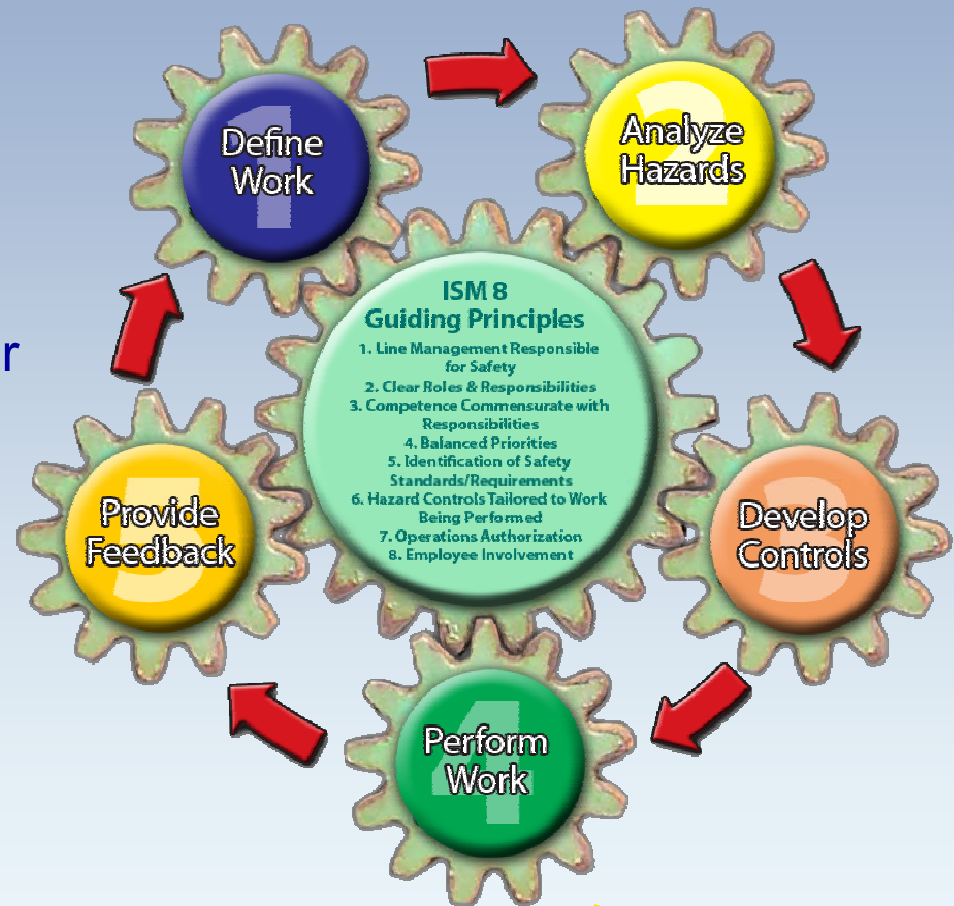
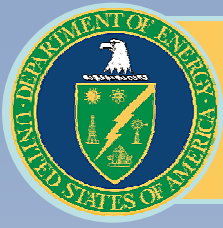


Integrating ISMS Core Functions in Waste Retrieval to Achieve Maximum Results

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AMWTP
Retrieval Production Manager

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AMWTP
Retrieval Operations Crew
Team Lead





TSA-RE

The Transuranic Storage Area (TSA) consists of approximately 7.5 acres. The waste was stored outside for approximately 20 years until the Transuranic Storage Area- Retrieval Enclosure (TSA-RE) was built.

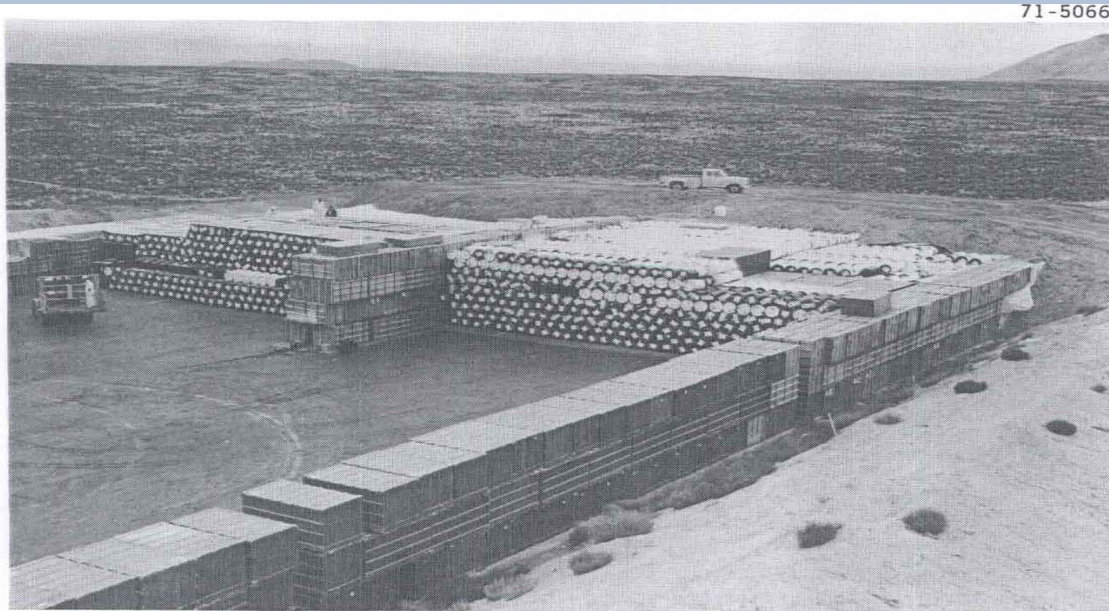
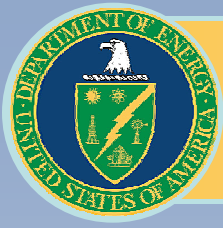


Figure 10-11. The waste stored on TSA, Cell 1 or Cell 2.

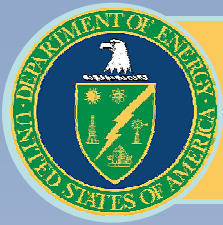




Define The Scope of Work

- Remove the soil, tarp and plywood covering the waste.
- Retrieve the Waste Boxes and Drums.

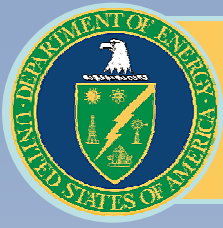




Analyze the Hazards

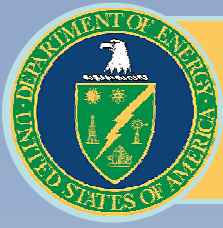
- Numerous hazards identified and analyzed in the retrieval area through daily operations, observations, historical information and Job Hazard Assessments include some of the following.
 - Soil Subsidence Concerns
 - Unstable Waste configurations
 - Horizontal Waste Configuration
 - Bulged Containers
 - Container Integrity
 - Radiological Concerns





Soil Removal

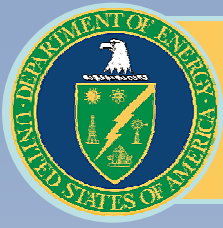




Soil Removal

Soil removal is accomplished by using dirt excavation equipment ensuring enough soil remains between the excavator and the waste to avoid damage to the waste containers and/or soil subsidence .

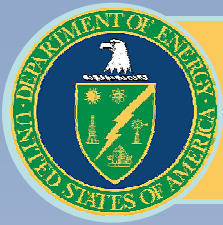




Drum and Box Retrieval Face

Once soil is removed, the retrieval face is kept in a stair step configuration to eliminate excess weight on the waste containers and eliminate the possibility of the waste containers tipping over.

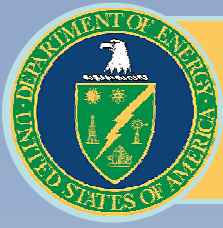




Mitigating the Hazards

- Mock Ups
 - Horizontal retrieval fixtures
 - Enhanced Drum Handling fixtures
 - Drum Picking Attachment
 - Box Retrieval From Known High Contamination Area.

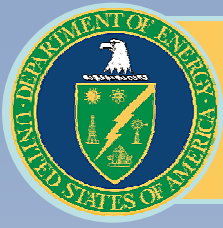




Mitigating The Hazards

Hazard	Horizontal and bulged drums
Mitigation	Procured and tested handling and lift fixtures
Result	<ul style="list-style-type: none">• Improved worker safety• Improved drum handling operations

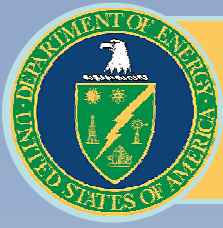




Perform the Work

Operators utilize Rolling Stock, Mechanical Equipment, Radiological and Industrial Safety/ Industrial Health Instrumentation and misc. hand tools to accomplish soil removal and daily waste retrieval activities.



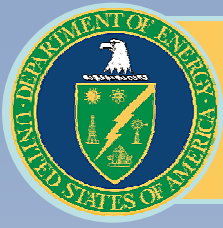


Mitigating Hazards Through Continuous Improvement



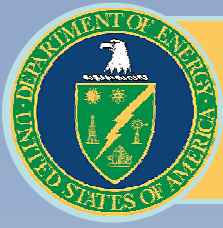
Contamination on the exterior of the boxes

1. Started by using shrink wrap and tape
 - Time consuming and material costs
 - Ergonomic concerns
2. Went to a one piece slip on cover
 - Saved time
 - Reduced ergonomic concerns
3. Reviewing using paint versus wrappings
 - Save time
 - Reduce waste



Provide Feedback

- Engagement and ownership at ALL levels
- Mock-ups
- Walk downs and discussions at ALL levels with all groups.
 - All disciplines and All Levels
- Lessons learned
- Post Job briefings



Summary

Our Mantra is

“Safety & Compliance Equals Production”

Application of ISMS and Continuous Improvement has contributed to increased retrieval rates thus increasing feed for characterization the treatment facility and shipping.

- | | |
|---|----------|
| – Last six months of 2007 we retrieved | 3,019 m3 |
| – First six months of 2008 we retrieved | 9,222 m3 |